

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE FRIGORIFIQUE

Publication
EP 3534086 A4 20190918 (EN)

Application
EP 16919754 A 20161031

Priority
JP 2016082348 W 20161031

Abstract (en)
[origin: EP3534086A1] A refrigeration cycle apparatus (100) is a refrigeration cycle apparatus in which refrigerant circulates in an order of a compressor (1), an oil separator (2), a condenser (3), an expansion valve (4), an evaporator (5), and an accumulator (6). The refrigeration cycle apparatus (100) includes: an oil returning path (21) extending from the oil separator (2) to the compressor (1); an electromagnetic valve (7) provided on the oil returning path (21); an oil returning path (22) extending from the accumulator (6) to the compressor (1); an electromagnetic valve (8) provided on the oil returning path (22); and a controller (30) configured to control a degree of opening of the electromagnetic valve (7) and a degree of opening of the electromagnetic valve (8). Preferably, the refrigeration cycle apparatus (100) further includes a self-heating sensor (91E) configured to detect an oil level position of refrigeration oil of the compressor (1). The controller (30) is configured to: increase the degree of opening of the electromagnetic valve (8) when an output of the self-heating sensor (91E) indicates insufficiency of the refrigeration oil of the compressor (1) at a first point of time; and increase the degree of opening of the electromagnetic valve (7) when the output of the self-heating sensor (91E) indicates the insufficiency of the refrigeration oil of the compressor (1) at a second point of time subsequent to the first point of time.

IPC 8 full level
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Citation (search report)
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